

Surname						Other Names					
Centre Number						Candidate Number					
Candidate Signature											


General Certificate of Secondary Education
June 2006



MATHEMATICS (MODULAR) (SPECIFICATION B)
Module 1 Foundation Tier Section B

43001/FB
F

Practice Paper (Two-tier Specification) 2008

<p>For this paper you must have:</p> <ul style="list-style-type: none"> • mathematical instruments <p>You must not use a calculator.</p>	
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Time allowed for Section B: 25 minutes

Instructions

- Use blue or black ink or ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- Answer the questions in the spaces provided.
- Do all rough work in this book.
- You may **not** use your calculator in Section B. Your calculator must remain on the floor under your seat.
- When you have answered Section B you may work again on Section A but you may **not** use your calculator. It must remain on the floor under your seat.
- At the end of the examination tag Section A and Section B together with Section A on top.

Information

- The maximum mark for Section B is 20.
- The marks for questions are shown in brackets.
- You may ask for more answer paper and graph paper. These must be tagged securely to this answer book.

Advice

- In all calculations, show clearly how you work out your answer.

Answer **all** questions in the spaces provided.

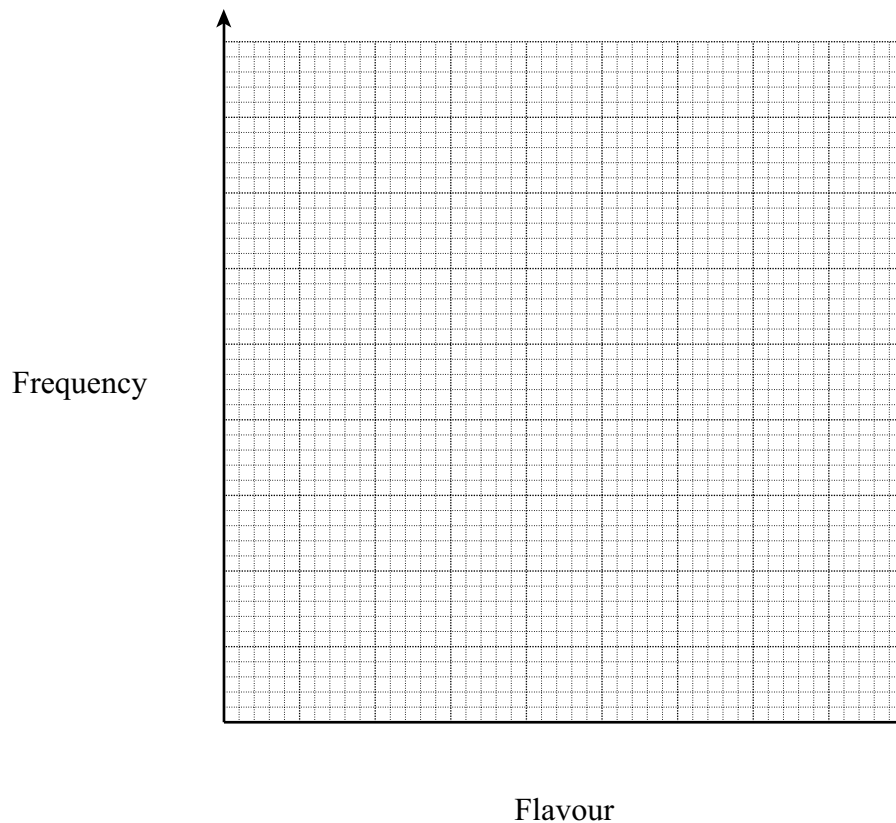
- 6 The table shows the favourite milk shakes of fifty students.

Flavour	Tally	Frequency
Strawberry (S)		
Banana (B)		
Raspberry (R)		
Chocolate (C)		

- (a) Complete the frequency column.

(1 mark)

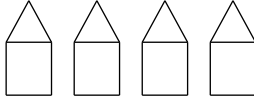
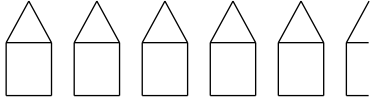
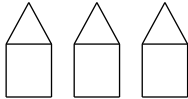
- (b) Draw a bar chart to show these results.



(3 marks)

- 7 The pictogram shows the number of houses with two, three and four bedrooms built on a housing estate.

 represents 10 houses

Two bedrooms	
Three bedrooms	
Four bedrooms	
Five bedrooms	

There were also 15 houses with five bedrooms built.

- (a) Complete the pictogram to show this information. (1 mark)
- (b) How many houses were built altogether on this housing estate?

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.....

Answer (2 marks)

Turn over for the next question

Turn over 

8 The midday temperatures ($^{\circ}\text{C}$) in Madrid for 14 days are shown.

32 27 29 35 24 24 32 34 27 26 24 25 31 36

(a) Calculate the median temperature.

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.....

Answer $^{\circ}\text{C}$ (2 marks)

(b) Calculate the range of these temperatures.

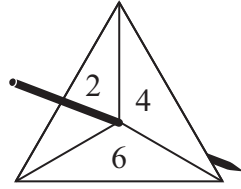
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Answer $^{\circ}\text{C}$ (1 mark)

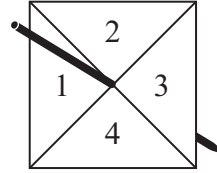
9 Here are two fair spinners.

Spinner A has three equal sectors numbered 2, 4 and 6.

Spinner B has four equal sectors numbered 1, 2, 3 and 4.



Spinner A



Spinner B

Each spinner is spun once.

The numbers that each spinner lands on are added to get the score.

(a) Complete the table to show all the possible scores.

		Spinner A		
		2	4	6
Spinner B	1			
	2			
	3			
	4			

(2 marks)

(b) Calculate the probability of scoring more than 7.

.....

Answer (2 marks)

4

Turn over

- 10** Jenny plays hockey.
The probabilities of her scoring certain numbers of goals in a match are shown in the table.

Number of goals	0	1	2	3 or more
Probability	0.2	0.4		0.1

Jenny plays 20 matches in one season.

In how many of these matches would you expect her to score exactly 2 goals?

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Answer matches (3 marks)

11 Sunita uses a questionnaire to carry out a survey about mobile phones.

(a) This is one of her questions.

‘Do you have a mobile phone and use it to send text messages?’

Write down **one** criticism of this question.

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.....
.....

(1 mark)

(b) Sunita wants to find out the number of text messages people send.

Write down a question she could ask.

Include a response section.

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(2 marks)

END OF QUESTIONS

3
